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Prepn. of noble metal catalyst - by modifying granular silica with silane contg. amino gp. fixing noble metal ions on surface and reducing

C89-062393

E(5-E2D, 31-P1, 31-P3, 35) J(4-E4) N(1-D, 2, 2-E, 2-F2, 5-E1, 6-E)

Catalyst of silica carrying noble metal on its surface, is prepd. by (a) modifying granular silica by reacting it with silane cpd. having amino-gp., then (b) fixing noble metal ions on the surface of silica by contacting the modified silica with aq. soln. of the noble metal salt in quantity of a fourth mole or less based on amino-gp. of the modified silica; then (c) reducing the noble metal-carrying silica.

Pref. 3-aminopropyl trialkoxysilane or N-(2-amino-ethyl)-3-amino-propyl trialkoxysilane is used as silane cpd. having amino-gp. Pref. amt. of amino-gps. fixed on silica is 0.1 to 2.0 millimole per gram of the modified silica.

ADVANTAGE - The catalyst can be prepd. with good reproducibility of performance and carries noble metal in a high density on the surface of silica, and thickness of the carrying layer can be controlled. (4pp Dwg.No.0/1)

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